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Patent claims

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 An electronic unit, in particular a control device for a motor vehicle, comprising a printed circuit board (12) which is populated with electronic components and a housing (14, 16) that encloses the printed circuit board,

wherein the printed circuit board (12) has at least one first printed circuit board section (34) which is arranged at a distance from the housing (14, 16) and is populated on both sides with electronic components, and at least one second printed circuit board section (36) which is connected to the housing via a heat-conducting adhesive layer (42),

wherein the housing (14, 16) comprises a housing floor (14) and a housing cover (16) which is connected thereto, and wherein the housing floor (14) includes crosssectional indentations for providing housing internal sections (32) that are used for connecting to the second printed circuit board section (36), of which there is at least one, via the adhesive layer (42),

characterized in that the connection between housing floor (14) and housing cover (16) takes the form of a glued groove-and-projection connection (38, 40), in which an annularly continuous projection (40) running around the edge of the housing cover (16) engages in a correspondingly arranged groove (38) in the housing floor (14) and is glued thereto.

2. The electronic unit as claimed in claim 1, wherein the same adhesive is used for the glued groove-and-projection connection (38, 40) as is used for the connection between the printed circuit board (12) and the housing (14, 16).

- 3. The electronic unit as claimed in claim 1 or 2, wherein at least one plug connector (18, 20) for the electrical connection of the electronic unit is integrated in the housing cover (16).
- 4. The electronic unit as claimed in claim 3, wherein terminal pins of the plug connector (18, 20) run straight to the printed circuit board (12) and are contacted directly onto this printed circuit board.
- 5. The electronic unit as claimed in claim 4, wherein the contacting of the terminal pins is provided in the form of press-in contacting.
- 6. The electronic unit as claimed in one of the preceding claims, having at least two printed circuit board sections (36) whose minimal reciprocal distance is greater than 40% of a maximal printed circuit board extent.
- 7. The electronic unit as claimed in one of the preceding claims, wherein at least one of the second printed circuit board sections (36) is arranged at a printed circuit board edge.
- 8. The electronic unit as claimed in one of the preceding claims, wherein at least one of the second printed circuit board sections (36) runs along a large part of a printed circuit board edge, particularly in an annularly continuous manner along a printed circuit board edge.
- 9. The electronic unit as claimed in one of the preceding claims, wherein at least one of the second printed circuit board sections (36) is populated with electronic components on the printed circuit board side which is

opposite to the adhesive layer (42).

- 10. A method for manufacturing an electronic unit (10), comprising the following steps:
  - a) providing a printed circuit board (12) including at least one first printed circuit board section (34) which is populated on both sides with electronic components, and including at least one second printed circuit board section (36) which is not populated with electronic components on one side,
  - b) providing a contoured housing floor (14) having raised housing internal sections (32) that are arranged corresponding to the second printed circuit board section (36), of which there is at least one, and having a groove (38) which runs in an annularly continuous manner around the edge of the housing floor (14),
  - c) depositing heat-conducting adhesive to the raised housing internal sections (32),
  - d) depositing adhesive to the base of the circumferential groove (38),
  - e) pressing on the printed circuit board (12) in order to bond this printed circuit board onto the raised housing internal sections (32),
  - f) providing a housing cover (16) having a projection (40) which is suitable for annularly continuous circumferential engagement in the groove (38) of the housing floor (14), and pressing the housing cover (16) onto the housing floor (14) in order to create a

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glued groove (38)-and-projection (40) connection between housing floor (14) and housing cover (16).

11. The method as claimed in claim 10, wherein the same adhesive is used in the steps c) and d).